

# News Release

## Hyundai Motor Presents Carbon Neutral Commitment at IAA Mobility 2021

- Hyundai Motor commits to achieve carbon neutrality by 2045
- Hyundai's holistic approach focuses on three pillars: clean mobility, next-generation platforms and green energy
- Hyundai to stop selling internal combustion engine vehicles in Europe, starting in 2035
- At IAA, Hyundai showcases concepts for upcoming BEV model, all-electric robotaxi, and artistic displays on hydrogen value chain to visitors and digital attendees

**Seoul/Munich, September 6, 2021** — Hyundai Motor Company today announced its commitment to become carbon neutral by 2045 at IAA Mobility 2021.

Hyundai's integrated strategy to achieve carbon neutrality rests on the following three pillars: clean mobility, next-generation platforms, and green energy. Hyundai is showcasing the full breadth of its electrified vehicle lineup and latest solutions to progress with positive energy at this year's IAA taking place from September 6 to 12 in Munich, Germany.

"Under our company's vision, Progress for Humanity, Hyundai Motor is determined to do the right thing for the world," said Jaehoon (Jay) Chang, President and CEO of Hyundai Motor Company. "Climate change is an undeniable challenge that needs everyone's utmost and urgent attention. Hyundai Motor commits to become carbon neutral in its global products and operations by 2045, and we will make investments in cleaner transportation and greener energy solutions to achieve a better and more sustainable future for all."

IAA visitors can locate Hyundai Motor's booth—where the company is exhibiting BEV concepts, all-electric robotaxi model, and artistic displays on hydrogen value chain—in Hall A1, Messe Munich. IAA Visitors can reach the event's various locations via Hyundai's Blue Lane<sup>1</sup> service, offering the

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<sup>1</sup> For more information about IAA Mobility 2021 Blue Lane service, please visit: <https://www.iaa.de/en/mobility/for-exhibitors/become-an-exhibitioner/advantages-formats/blue-lane>

opportunity to experience the brand's latest clean mobility vehicles, including IONIQ 5, NEXO, Kona EV, and Elec City Fuel Cell bus.

Hyundai's demonstration at IAA is available digitally as well. The press conference video is uploaded on [Hyundai Motor's Worldwide YouTube](#) channel.

"With a new location and a live-digital hybrid format, this year's IAA is very different from previous events, and we are very happy that we are participating once again as an exhibitor," said Michael Cole, President and CEO of Hyundai Motor Europe. "We are excited to be sharing our future company vision, which goes beyond automotive mobility. On top of this, we are outlining our roadmap to enable a carbon neutral society, which is imperative as the future of the planet is at stake."

### **Path to Carbon Neutrality**

At this year's IAA, Hyundai Motor commits to reduce its carbon emissions 75 percent below the 2019 level by 2040. Hyundai will achieve carbon neutrality in its products and global operations by 2045.

Hyundai Motor's integrated, multi-dimensional strategy for carbon neutrality consists of three pillars: expanding its clean mobility lineup, developing next-generation platforms, and investing in green energy solutions and technologies.

### **Pillar 1: Clean Mobility**

Since the first unveiling of its EV concept vehicle in 1991, Hyundai Motor has made progress towards carbon reduction through its leadership in clean mobility.

Hyundai Motor commits to gradually increase the sales share of zero-emission vehicles (ZEVs) in upcoming years. By 2030, Hyundai aims to secure 30 percent of its global vehicles sales with ZEVs, and by 2040, the company expects that battery electric vehicles (BEVs) and Fuel Cell Electric Vehicles (FCEVs) will account for 80 percent of its total fleet sales.

By region, Hyundai Motor plans to offer only ZEVs in Europe, starting in 2035. By 2040, Hyundai will phase out all vehicles using fossil fuels in major markets, supportive of the transition to clean mobility.

### **Battery Electric Vehicle (BEV)**

In August 2020, Hyundai Motor launched its new IONIQ brand for dedicated BEVs, signaling its commitment to the electrified mobility era. Later that year, Hyundai Motor Group, the parent of Hyundai Motor Company, unveiled its Electric-Global Modular Platform (E-GMP) for dedicated BEVs.

Hyundai Motor's IONIQ 5, which launched in February 2021, is the brand's first BEV built upon E-GMP. IONIQ 5 has set a new benchmark for redefining the electric mobility lifestyle with sustainable

and innovative features, such as 400 V and 800 V multi-charging and Vehicle-to-Load (V2L).

Hyundai's next dedicated BEV will be IONIQ 6, which draws inspiration from its Prophecy EV concept that is on display at IAA 2021. IONIQ 6 is going to offer BEV experiences with a focus on customized, eco-friendly solutions that can fit any lifestyle.

### Fuel Cell Electric Vehicle (FCEV)

Hyundai Motor has invested in hydrogen fuel cell technology for more than 20 years. Hyundai launched ix35, the world's first mass-produced FCEV, in 2013, followed by NEXO, the first dedicated hydrogen-powered SUV, in 2018. Last year, the company delivered XCIENT Fuel Cell, the world's first mass-produced, fuel cell electric heavy-duty truck, to customers in Switzerland. Hyundai recently presented its Elec City Fuel Cell bus in Munich and the vehicle is now in a testing phase in Europe.

At IAA, Hyundai unveils its passenger FCEV roadmap for the next few years. In 2023, Hyundai will introduce the next model of NEXO and hydrogen-powered multi-purpose vehicle (MPV) model. Hyundai plans to launch a large SUV powered by fuel cell after 2025.

Hyundai Motor is also going to provide its fuel cell powertrains to all types of mobility fleets and other areas of life.

## **Pillar 2: Next-generation Platforms**

Hyundai Motor has made leading investments in the field of next-generation transportation platforms. This includes an innovative set of mobility options to get from point A to B, such as UAM and autonomous vehicles, offering greater freedom of mobility without a carbon footprint. These platforms are also in line with the company's Progress for Humanity vision, and shows Hyundai's commitment to enhance urban livability for the future generations.

### IONIQ 5-based robotaxi

Hyundai Motor unveils the first look of its groundbreaking robotaxi model at IAA Mobility 2021. Hyundai has collaborated with [Motional](#), a global leader in driverless technology, to develop the SAE Level 4 autonomous driving vehicle based on IONIQ 5.

With an advanced sensor suite attached to Hyundai's latest dedicated BEV model, the robotaxi features a technology-driven design that celebrates the innovation behind the autonomous operation. The vehicle will feature rider-focused interfaces to allow passengers to intuitively interact with the vehicle during their ride. Motional will begin transporting public passengers in the IONIQ 5-based robotaxi when it launches its [fully driverless service in 2023](#).

### Urban Air Mobility (UAM)

At CES 2020, Hyundai introduced the UAM concept model, S-A1, being developed based on four principles: safe, quiet, affordable and passenger-centered solutions. Hyundai Motor aims to launch an all-electric UAM model optimized for intra-city operations in 2028. In the 2030s, the company plans to launch regional air mobility that connects adjacent cities.

### **Pillar 3: Green Energy**

Hyundai Motor's carbon neutral strategy goes beyond the transition to ZEVs. It aims to provide cleaner and greener energy solutions for all. This includes not only using renewable energy at the company's production facilities, but also making long-term investments in future technologies, such as green hydrogen based on renewable energy, Vehicle-to-grid (V2G) and Second Life Battery Energy Storage System (SLBESS).

#### Green Hydrogen

Green hydrogen obtained from electrolysis of water generated by low-carbon power sources is expected to significantly reduce carbon emissions. Hyundai Motor has invested in global startups, such as H2Pro, to cooperate in the field of green hydrogen. Furthermore, Hyundai plans to establish green hydrogen infrastructures in countries with strong government support and abundant renewable energy sources.

#### Carbon reduction at sites

Hyundai Motor has been carrying out a number of activities to reduce the amount of carbon and other greenhouse gas emissions produced by its manufacturing processes. The company's actions include continuing with its energy reduction activities and building eco-friendly plants by converting them to renewable energy sources like photovoltaic power.

In July, Hyundai Motor teamed with other affiliates of Hyundai Motor Group to join Climate Group's RE100, a global initiative committed to moving toward 100 percent renewable energy. Under the commitment, the Hyundai Motor Manufacturing Czech plant will be the company's first factory to completely convert its electricity usage to renewable energy in 2022. The company aims to meet the electricity needs of over 90 percent of its global operations with renewable energy by 2040. Hyundai commits to power its entire global operations only with renewable energy by 2045.

#### Vehicle-to-grid (V2G)

V2G is the latest technology that allows energy to be pushed back to the power grid from the battery of an EV. It enables efficient energy demand management especially during peak hours, thus lessening dependence on fossil fuels.

Hyundai is currently conducting several V2G pilot programs with various stakeholders in the market. The company plans to implement the V2G function to its upcoming BEV models.

### Second Life Battery Energy Storage System (SLBESS)

Hyundai Motor is also looking to recover and transform end-of-life batteries into a new business of energy storage system. Hyundai is currently working with various local energy partners to run pilot projects to commercially reuse second-life EV batteries. Also, the company is scheduled to test a small size application of SLBESS in Germany next year.

“IAA Mobility is the perfect occasion to unveil our global vision for carbon neutrality. IAA is yet another milestone along the sustainable journey we’ve been paving for years. Hyundai Motor will remain steadfast in our pursuit of carbon neutrality and lead the way in the development of holistic solutions,” said Thomas Schemera, Global Chief Marketing Officer at Hyundai Motor Company.

“As a smart mobility solution provider, Hyundai also aspires to provide energy solutions for business and society overall. Climate change won’t be solved without a concerted effort. We will strive to do more for the environment via multiple sustainability projects in the months to come, inviting everyone to join us on our journey towards a cleaner future,” Schemera added.

### **White Paper**

More details on Hyundai Motor’s pathways to a carbon-neutral future can be found [here](#) in its white paper, starting September 7.

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**About IAA Mobility**

The International Motor Show Germany (IAA Mobility) is the world's largest motor show. Representatives from society, industry and politics present and discuss their visions and perspectives for sustainable mobility. This year's event is the 69th edition and takes place in Munich from 6 to 12 September.

**About Hyundai Motor Company**

Established in 1967, Hyundai Motor Company is present in over 200 countries with more than 120,000 employees dedicated to tackling real-world mobility challenges around the globe. Based on the brand vision 'Progress for Humanity,' Hyundai Motor is accelerating its transformation into a Smart Mobility Solution Provider.

The company invests in advanced technologies such as robotics and Urban Air Mobility (UAM) to bring about revolutionary mobility solutions, while pursuing open innovation to introduce future mobility services. In pursuit of sustainable future for the world, Hyundai will continue its efforts to introduce zero emission vehicles equipped with industry-leading hydrogen fuel cell and EV technologies.

More information about Hyundai Motor and its products can be found at:

<http://worldwide.hyundai.com> or <http://globalpr.hyundai.com>